SYLLABUS OF THE EDUCATIONAL COMPONENT



MEDICINAL PLANTS IN VETERINARY MEDICINE

| specialty | 211 Veterinary medicine | mandatory discipline | selective |
|---------------------|-------------------------|-------------------------|-------------------------------|
| educational program | Veterinary medicine | faculty | of veterinary medicine |
| educational level | Not limited | Department | pharmacology and parasitology |

TEACHER

Ladohubets Olena Vasylievna



Higher education - specialty biologist

Scientific degree - candidate of biological sciences 03.00.13 Human and animal physiology Academic title - associate professor of the department of pharmacology and parasitology Work experience - 20 years

Indicators of professional activity on the subject of the course:

- author of more than 7 methodological developments;
- author and co-author of more than 120 scientific works,
 including articles indexed in Web of Science scientometric databases 5,
- scientific-practical and methodical recommendations 7,
- educational and methodological manuals 4, GSTU 2.

phone 0504022811 Email ladohubets@gmail.com remote support Moodle

The following are involved in the teaching of the discipline: associate professor, candidate of medicine. Sciences Duchenko Kateryna Andriivna.

| | GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT (DISCIPLINE) |
|--|---|
| Goal | formation of students' competences in the assimilation of the diversity of wild and cultivated representatives of the flora of Ukraine as medicinal products of natural origin used in veterinary practice |
| Format | lectures, practical classes, independent work, individual tasks |
| Detailing of learning results and forms of their control | Ability to search and process information from professional sources regarding the use of medicinal plant raw materials for the manufacture of medicinal forms for the treatment and prevention of animal diseases (GC1, GC2, PLO10) / individual tasks for analysis |
| | Ability to treat and prevent animal diseases using medicinal forms made from plant raw materials (GC2, GC3, PLO1, PLO15) / individual practical tasks |
| | Ability to understand the importance and necessity of carrying out treatment and preventive measures using medicinal forms from plant raw materials (GC2, GC3, SC7, PLO15, PLO20) / individual situational tasks |
| | The ability to organize, conduct and analyze the results of special laboratory studies with the appropriate registration of their results (GC2, GC3, SC2, PLO7) / individual tasks for analysis |
| | Ability to timely and effectively develop and implement measures for the use of medicinal plant raw materials (GC2, GC3, GC8, PLO10, PLO20) / individual practical tasks |
| Scope and forms of control | 3 ECTS credits (120 hours): 12 hours of lectures, 18 hours of laboratory classes; 60 hours of independent work, modular control (2 modules); final control - differentiated assessment. |
| Requirements of the teacher | timely completion of tasks, activity, teamwork |
| Enrollment conditions | after mastering the following components: (list)" or "free enrollment" |

COMPLEMENTS THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAM

| Competences | GC 1. Ability to abstract thinking, analysis and synthesis. | Program | PLO 1. Know and correctly use the terminology of veterinary |
|-------------|--|----------|--|
| | GC 2. Ability to apply knowledge in practical situations. | learning | medicine. |
| | GC 3. Knowledge and understanding of the subject field and | outcomes | PLO 10. To propose and use expedient innovative methods and |
| | profession. | | approaches to solving problematic situations of |
| | GC 8. Ability to learn and master modern knowledge. | | professional origin. |
| | SC 2. The ability to use tools, special devices, devices, | | PLO 15. Know the rules of storage of various pharmaceuticals and |
| | laboratory equipment and other technical means to carry | | biological preparations, ways of their enteral or parenteral |
| | out the necessary manipulations during professional | | use, understand the mechanism of their action, interaction |
| | activities | | and complex action on the animal body. |
| | SC 7. Ability to organize and conduct laboratory and special | | PLO 20. To have specialized software tools for performing |
| | diagnostic studies and analyze their results. | | professional tasks. |

| STRUCTURE OF THE EDUCATIONAL COMPONENT (DISCIPLINES) | | | | | |
|--|---|--------------------------|--|---|---|
| Module 1. General pharmacognosy | | | | | |
| Lecture 1. Lecture 2. | Introduction to the discipline Medicinal plants in veterinary medicine. Biologically active substances of medicinal plants: alkaloids, | Practical classes (PC 1) | Medicinal plants (MP) and medicinal plant raw materials (MPRM). Medicinal forms prepared from LRS, the technology of their preparation. | The meaning of the Red Book. The role of LR introduction and examp | |
| | glycosides. | | | ۸or | • |
| Lecture 3. | Biologically active substances of medicinal plants: terpenoids, flavonoids, tannins, coumarins, chromones, xanthones, essential oils, resins and balms, antibiotic substances, hormone-like substances, polysaccharides, fats, bitterness, vitamins, organic acids, trace elements. | PC 2 PC 3 | Determining the reliability of MPRM. Biologically active substances of medicinal plants. | Independent work | |
| | | cological effe | ct and use of medicinal plants in ve | torir | arv medicine |
| Lecture 4. | Medicinal plantsc ontaining polysaccharides, fats and fatty substances, vitamins, enzymes and | _ | Medicinal plants that act on the central nervous system and affect the work of the heart. | . cern | ially illedicine |
| | phytohormones, glycosides, phenolic compounds and their glycosides, coumarins, chromones, lignans, flavonoids, xanthones, quinones, tannins (tannins). | PC 5 | Medicinal plants used for stomach and intestinal ulcer diseases, which have choleretic properties and contain bitters. | pendent work | Application in practice and prospects of use in veterinary medicine of medicines from |
| Lecture 5 | Medicinal plants containing isoprenoids and essential oils, | PC 6 | Medicinal plants that have emetic, ruminative, expectorant properties and a laxative effect. | a | medicinal plant raw materials. Peculiarities of the clinical manifestation and course of poisoning by certain types of plants. |
| | steroids, cardiosteroids and alkaloids. | PC 7 | Medicinal plants that have a firming and astringent hemostatic property and tone the uterus. | pul | country possessing wy certain types of plants. |
| Lecture 6 | Medicinal plants containing different groups of biologically active | | Medicinal plants with diuretic and antiparasitic effects. | | |
| | substances. | PC 9 | Medicinal plants that have an anti- inflammatory and tonic effect. | | |

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

RECOMMENDED BOOKS

Basic literature

- 1. Andrew Chevallier Encyclopedia Of Herbal Medicine: Dorlina, 2023.-360 p.
- 2. Handbook of Medicinal Plants : A Complete Source Book/Narayan Das Prajapati; S S Purohit; Arun K Sharma and Tarun Kumar.: Agrobios, 2021,-554 P.
- 3. Veterinary herbal medicine / [edited by] Susan G. Wynn, Barbara J.Fougère.: Mosby Inc., 2017. 714 c.

literature

Additional literature

- 4. Handbook of Medicinal Plants/ [edited by] Zohara Yaniv, Uriel Bachrach.:Routledge.,2008.-526 p
- 5. Pharmacognosy /[edited by Simona Badal.: Elsevier Inc., 2017 .- 716 p.

Methodical support

| EVALUATION SYSTEM (e | electronic link to regulations |
|----------------------|--------------------------------|
|----------------------|--------------------------------|

| 207/207/11010 01012101 (circultoline link to regulations) | | | | |
|---|---------------------------|----------|---|--|
| | SYSTEM | POINTS | ACTIVITY TO BE EVALUATED | |
| Final assessment | 100 point ECTS (standard) | up to 50 | 50% of the average grade for the modules | |
| | | up to 50 | final testing | |
| Modular assessment | 100 points total | up to 50 | answers to test questions | |
| | | up to 20 | oral answers in laboratory-practical classes | |
| | | up to 30 | the result of mastering the block of independent work | |

NORMS OF ACADEMIC ETHICS AND CHARITY

All participants in the educational process (including those seeking education) must adhere to the code of academic integrity and the requirements set forth in the provision "On academic integrity of participants in the educational process of DBTU": show discipline, education, respect each other's dignity, show kindness, honesty, responsibility.